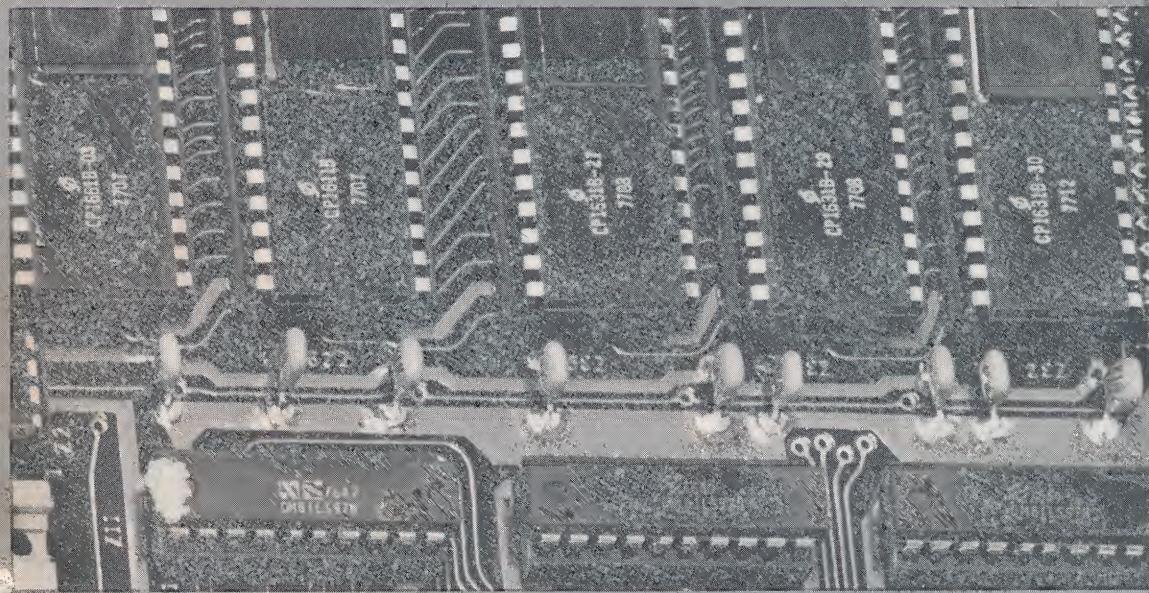


\* The ATM-100 11-bit alike.

PCC 77



ALPHA  
MICRO SYSTEMS™

# SYSTEM UTILITIES

Here are the more important utilities, only a partial list of those available.

**DYSTAT** — system managers dynamic status display of all jobs.  
**DEVTBL** — allocates device codes to the system.  
**BITMAP** — assigns disk bitmap area to preserve data integrity.  
**LPTSPL** — line printer spooier.  
**ATTACH** — attaches job to a terminal.  
**DETACH** — detaches job from a terminal.  
**FORCE** — forces terminal input to another job.  
**WAIT** — stalls execution in a user's job queue.  
**KILL** — stops execution of a batch program.  
**SUSPND** — puts user's job to sleep.  
**REVIVE** — awakens user's job.  
**SETPRI** — sets priority level of a job.  
**MEMORY** — allocates a memory partition.  
**SYSTAT** — gives user current status of each job in the system.

**SYSACT** — logs new users and passwords onto system.  
**MEMTEST** — memory test.  
**BMVR** — programs PROMs with Cromemco Bytsaver.  
**COPY** — copies disk files.  
**DSKCPY** — creates backup disks.  
**DSKANA** — disk analysis to test for bad files.  
**DIR** — lists contents of disk by file name.  
**TYPE** — prints disk file on terminal in ASCII.  
**DSKDMP** — dumps disk records on terminal in octal.  
**ERASE** — erases a disk file.  
**LOAD** — loads disk file into memory.  
**SAVE** — save program from memory on disk.  
**LOG** — user logs in on system.  
**LOGOFF** — user signs off.  
**MAKE** — creates a file on disk.  
**TXTFMT** — letter writing text formatter.

## languages

### THE MACRO ASSEMBLER

The MACRO assembler is a flexible and efficient assembly language development system under the AMOS supervisor which includes the assembler, linkage editor, symbol file generator and symbolic debug program. The assembler is a multi-pass macro assembler with conditional assembly directives, library copy function and external segment links. The linkage editor is used to link multi-segment programs together and create a runnable program file. The operating system supports segment overlays thereby allowing large programs to be logically divided into smaller segments and executed sequentially. The debug program allows the program to be traced and debugged in symbolic instructions using all the labels as they were entered in the source program.

To be compatible with the AMOS system architecture, all programs must be written in totally relocatable code which means that the program may be loaded anywhere in the RAM and executed without modifying any addresses within the program itself. Machine instructions assist in writing totally relocatable code and by following a few simple restrictions, the writing of assembly language programs for the AM-100 becomes almost foolproof.

### AlphaBasic™

AlphaBasic is an extension of the popular BASIC language with several features not found in other implementations. These features not only enhance the performance of traditional uses of the language but make business applications easier to program. COBOL users will find the I/O processing convenient for data manipulation, while the memory mapping system will entice the assembly language programmers who wish to link up their own external routines. Floating point hardware in the processor is fully supported making AlphaBasic faster for mathematical computations than any other BASIC currently implemented in an S-100 bus microprocessor system.

AlphaBasic is a compiler so that only the compiled code and a small runtime package must reside in memory during execution, thereby saving memory

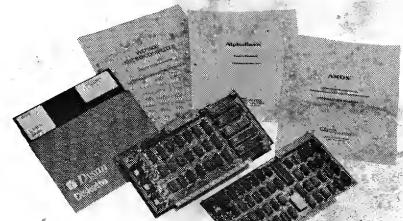
space and protecting the program sources. The AlphaBasic compiler and the runtime package are both written in reentrant code so that they may optionally be shared by all users running or debugging programs. The object programs created by the compiler are also totally reentrant and sharable thereby further reducing memory requirements if it is desired to allow several users to run the same program.

Data formats supported are integer, floating point, string and binary variables, either as simple variables or array structures. Variable names are not limited to conventional single character and single digit format but may be any number of alphanumeric characters in length, provided the first character is alphabetic. Another unique feature allows the user to define strings of alphanumeric text and equate them to single keywords which then may be used in either the source text itself or as an immediate mode command.

AlphaBasic supports both sequential and randomly organized files.

### LISP

The LIST PROCESSOR is a language implemented on the AM-100 microcomputer for those interested in a language that is both a formal mathematical language and (with extensions) a convenient programming language. As a formal mathematical language, it is founded upon a particular part of mathematical logic known as recursive function theory. As a programming language, LISP is concerned primarily with the computer processing of symbolic data rather than numeric data. LISP is designed to allow symbolic expressions of arbitrary complexity to be evaluated by a computer.



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including software	
AM-200*	\$695.00
AM-300*	\$695.00

The above available off the shelf. AM-250 Hard surfaced disk subsystem prices on request. Availability 4-6 weeks ARO.

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